CLAIMS:

- 1 1. A multimedia network system for inter-connecting a number of receiving and
- transmitting digital and/or analogous devices, the network system comprising:
- a number of receiving and/or transmitting terminals to be connected to said
- 4 digital and/or analogous devices,
- 5 application specific connector arrangements for connecting said digital and/or
- 6 analogous devices to said terminals, and
- 7 at least one of said connector arrangements being arranged to transmit and/or
- 8 receive data, said at least one connector arrangement containing data at least
- 9 about required bandwidth, identification and receiving/transmitting device data
- 10 format.
 - 1 2. The network system of claim 1, wherein said connector arrangements are
- 2 connected to said terminals through identical interfaces.
- 1 3. The network system of claim 1, comprising a control logic, for handling one or
- 2 several of:
- bandwidth allocation request,
- 4 group connection set-up,
- 5 group address setting,
- 6 network status indication,
- 7 connection status indication, and
- 8 Terminal initiation.
- 1 4. The network system of claim 3, wherein said control logic is provided in at least
- one of said terminals and/or at least one of said connector arrangements.
- 1 5. The network system of claim 4, wherein said control logic provided in at least one
- 2 connector arrangement being a transmitting connector, handles one or several of:
- bandwidth allocation request,
- 4 group connection set-up,
- 5 network status indication, and
- 6 connection status indication.

- 1 6. The network system of claim 4, wherein said control logic is provided in a least
- 2 one connector arrangement being a receiving connector handling at least one of:
- group address setting,
- network status indication, and
- 5 connection status indication.
- 1 7. The network system of claim 5, wherein said terminal handles at least one of
- network status indication,
- connection status indication, and
- 4 terminal initiation at power-up or after disconnection of connector
- 5 arrangements.
- 1 8. The network system of claim 1, wherein a group of said connector arrangements
- 2 consists of one transmitting and at least one receiving connector arrangements
- 3 having same identity.
- 1 9. The network system of claim 8, wherein said identity is user and/or at least partly
- 2 pre-defined by means of an identification means.
- 1 10. The network system of claim 1, wherein the output from a connector arrangement
- 2 connecting a transmitter device is adapted into a digital format, supported by a
- 3 source port of a network transceiver in a terminal.
- 1 11. The network system of claim 10, wherein the adaptation is done in a transmitter
- adaptation, which is in one side connected to an output of the transmitter and in
- other side to a source port of the network transceiver in the terminal.
- 1 12. The network system of claim 11, wherein an adapted data, when inserted into the
- 2 network, is captured in said Terminals in the network using an appropriate
- 3 receiver connector arrangement where it is adapted back into an original format
- 4 and delivered to a receiver device.
- 1 13. The network system of claim 12, wherein the adapted data stream from a
- 2 transmitter device is captured in the terminal and adapted back in an receiver

- 3 adaptation in the receiver connecter arrangement and delivered to a receiver
- 4 device.
- 1 14. The network system of claim 1, wherein signals from several devices are
- 2 transmitted simultaneously through the network.
- 1 15. The network system of claim 1, wherein each connector arrangement comprises an
- 2 identification set arrangement to configure receivers to corresponding transmitters.
- 1 16. The network system of claim 1, wherein a connector arrangement comprises
- 2 means to receive an analogue signal, means for converting said signal to a digital
- 3 signal and means to transmit said digital signal on said network.
- 1 17. The network system of claim 1, wherein a connector arrangement comprises
- 2 means to receive an digital signal from said network, means for converting said
- 3 signal to an analogue signal and means to couple said analogue signal to an
- 4 analogue device.
- 1 18. The network system of claim 16, wherein said analogue signal is one of audio or
- video signals, which can be compressed and/or encoded.
- 1 19. The network system of claim 10, wherein said identification elements comprise
- 2 switches for setting unique identities for transmitting and receiving connector
- 3 arrangements.
- 1 20. The network system of claim 1, wherein said connector arrangement comprises
- 2 information member informing about accessibility and/or type of connection.
- 1 21. The network system of claim 1, said terminals and/or connector arrangements are
- 2 identical.
- 22. The network system of claim 1, wherein a connector arrangement identifies a
- 2 network capacity and characteristic before transmitting on the network.
- 1 23. The network system of claim 1, wherein said network has one of a ring or star-
- 2. topology.

- 1 24. The network system of claim 1, wherein said terminals are arranged in series
- and/or parallel.
- 1 25. The network system of claim 1, wherein said network is implemented as one of
- 2 MOSTnet or IEEE 1394.
- 1 26. The network system of claim 1, wherein said terminal and connector arrangement
- 2 are integrated.
- 1 27. The network system of claim 1, wherein at said terminals and connector
- 2 arrangements are powered through same source.
- 1 28. The network system of claim 1, wherein connector arrangements are arranged in
- 2 said digital and/or analogous device.
- 1 29. The network system of claim 1, wherein the system comprises wireless connection
- between connector arrangements and/or terminals.
- 1 30. The network system of claim 1, wherein the network is accessed externally.
- 1 31. The network system according to claim 19, wherein said identification element is
- 2 controlled remotely.
- 1 32. The network system of claim 1, wherein said terminals and connector
- 2 arrangements are connected wirelessly.
- 1 33. A connector arrangement for use in a network system for inter-connecting a
- 2 number of receiving and transmitting digital and/or analogous devices, the network
- 3 system comprising:
- a number of receiving and/or transmitting terminals to be connected to said
- 5 digital and/or analogous devices,
- application specific connector arrangements for connecting said digital and/or
- 7 analogous devices to said terminals, and
- at least one of said connector arrangements being arranged to transmit and/or
- 9 receive data, said at least one connector arrangement containing data at least

- about required bandwidth, identification and receiving/transmitting device data
- 11 format,
- said connector arrangement comprising:
- a controller,
- a receiver and/or,
- a transmitter adopter,
- identification means, and
- physical connectors for connecting to said devices.
- 1 34. The connector arrangement of claim 33 arranged in a digital and/or analogues
- 2 device.
- 1 35. A terminal for use in a network system for inter-connecting a number of receiving
- 2 and transmitting digital and/or analogous devices, the network system comprising:
- a number of receiving and/or transmitting terminals to be connected to said
 digital and/or analogous devices,
- application specific connector arrangements for connecting said digital and/or analogous devices to said terminals, and
- at least one of said connector arrangements being arranged to transmit and/or receive data, said at least one connector arrangement containing data at least about required bandwidth, identification and receiving/transmitting device data
- 10 format,
- said terminal comprising a controller and a transceiver.
- 1 36. The terminal of claim 35, comprising Control Ports and source ports configured in
- 2 either serial or parallel mode.
- 1 37. A method of inter-connecting a number of receiving and transmitting digital
- 2 and/or analogous devices, the method comprising the steps of providing:
- a network system,
- a number of receiving and/or transmitting terminals to be connected to said
 digital and/or analogous devices,

- application specific connector arrangements for connecting said digital
 and/or analogous devices to said terminals, and
 - arranging at least one of said connector arrangements to transmit and/or receive data, wherein at least one connector arrangement contains data at least about required bandwidth, identification and receiving/transmitting device data format.
- 1 38. A computer program product in a computer unit for controlling and/or monitoring
- 2 a network system for inter-connecting a number of receiving and transmitting digital
- 3 and/or analogous devices, the network system comprising:

8

9

10

11

- a number of receiving and/or transmitting terminals to be connected to said
 digital and/or analogous devices,
- application specific connector arrangements for connecting said digital and/or analogous devices to said terminals, and
- at least one of said connector arrangements being arranged to transmit and/or receive data, said at least one connector arrangement containing data at least about required bandwidth, identification and receiving/transmitting device data format, said.